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(54) PYRIDINE-BASED COMPOUND OR ITS SALT, METHOD FOR PRODUCING THE SAME, AND HERBICIDE CONTAINING THE SAME

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a pyridine-based compound or its salt useful as an active ingredient of a herbicide, to provide a method for producing the same, and to provide the herbicide containing the same.

SOLUTION: This pyridine-based compound expressed by

formula (I) [Ar is expressed as Ar1 or Ar2; A, B, D, E, A', B', D', and E' are each O, S, -N(R⁶)-, =N-, =C(R⁶)- or -C(R⁶)₂-; X is O or S; Z is H, an alkyl which may be substituted or the like; R¹ is a halogen, an alkyl which may be substituted or the like; R² is H, a halogen, an alkyl or the like; R³ and R⁴ are each H, a halogen, an alkyl or the like; R⁵ is a halogen, an alkyl or the like; and R⁶ is H, a halogen, an alkyl or a halogelkyl] or its salt.

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$$Z \xrightarrow{\mathbf{R}^{4}} \mathbf{R}^{2} \qquad (I)$$

$$R^{4} \xrightarrow{\mathbf{R}^{3}} \mathbf{R}^{3}$$

$$R^{5} \xrightarrow{(\mathbf{E}^{5})_{m}} \mathbf{R}^{3}$$

$$Ar_{1} \qquad \forall \exists \mathbf{R}^{2} \qquad (\mathbf{E}^{5})_{r}$$